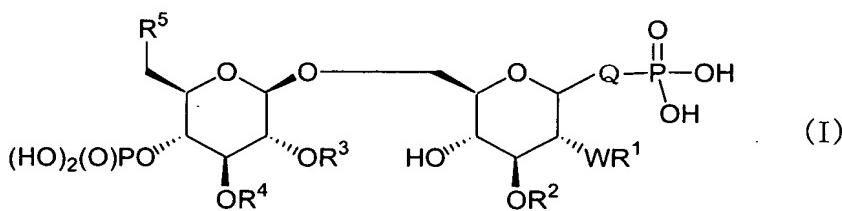


CLAIMS

1. A compound represented by the following general formula:



wherein Q represents an oxygen atom, a C₁-C₃ alkylene group, a -O-Alk- group or a -O-Alk-O- group (in which Alk represents a C₁-C₃ alkylene group),

W represents an oxygen atom or a -NH- group,

R¹ (when W is a -NH- group) represents a C₁-C₂₀ alkanoyl group which may be substituted by at least one group selected from the following Substituent group A, a C₃-C₂₀ alkenoyl group which may be substituted by at least one group selected from the following Substituent group A or a C₃-C₂₀ alkynoyl group which may be substituted by at least one group selected from the following Substituent group A,

R¹ (when W is an oxygen atom), R², R³ and R⁴, which may be the same or different, represent a hydrogen atom, a C₁-C₂₀ alkyl group which may be substituted by at least one group selected from the following Substituent group A, a C₂-C₂₀ alkenyl group which may be substituted by at least one group selected from the following Substituent group A, a C₂-C₂₀ alkynyl group which may be substituted by at least one group selected from the following Substituent group A, a C₁-C₂₀ alkanoyl group which may be substituted by at least one group selected from the following Substituent group A, a C₃-C₂₀ alkenoyl group which may be substituted by at least one group selected from the following Substituent group A or a C₃-C₂₀ alkynoyl

group which may be substituted by at least one group selected from the following

Substituent group A,

R^5 represents a hydrogen atom, a halogen atom, a hydroxyl group, a C_1 - C_6 alkoxy group which may have an oxo group, a C_2 - C_6 alkenyloxy group which may have an oxo group or a C_2 - C_6 alkynyoxy group which may have an oxo group,

the Substituent group A consisting of a halogen atom, a hydroxyl group, an oxo group, a C_1 - C_{20} alkoxy group which may have an oxo group, a $(C_1$ - C_{20} alkoxy) C_1 - C_{20} alkoxy group, a C_1 - C_{20} alkoxy group which may have an oxo group, a $\{(C_1$ - C_{20} alkoxy) C_1 - C_{20} alkoxy $\} C_1$ - C_{20} alkoxy group, a C_2 - C_{20} alkenyloxy group which may have an oxo group, a C_2 - C_{20} alkynyoxy group which may have an oxo group, a C_1 - C_{20} alkanoyloxy group which may have an oxo group, a C_3 - C_{20} alkenoyloxy group which may have an oxo group and a C_3 - C_{20} alkynoyloxy group which may have an oxo group, or a pharmacologically acceptable salt thereof.

2. The compound according to claim 1, wherein W is a -NH- group and R^1 is a C_8 - C_{18} alkanoyl or C_8 - C_{18} alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.

3. The compound according to claim 1, wherein W is a -NH- group and R^1 is a C_{10} - C_{18} alkanoyl or C_{10} - C_{18} alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.

4. The compound according to claim 1, wherein W is a -NH- group and R^1 is a C_{12} - C_{16} alkanoyl or C_{12} - C_{16} alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.

5. The compound according to claim 1, wherein W is an oxygen atom and R¹, R², R³ and R⁴, which may be the same or different, are a C₄-C₁₈ alkyl, C₄-C₁₈ alkenyl, C₄-C₁₈ alkanoyl or C₄-C₁₈ alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
6. The compound according to claim 1, wherein W is an oxygen atom and R¹, R², R³ and R⁴, which may be the same or different, are a C₈-C₁₈ alkyl, C₈-C₁₈ alkenyl, C₈-C₁₈ alkanoyl or C₈-C₁₈ alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
7. The compound according to claim 1, wherein W is an oxygen atom and R¹, R², R³ and R⁴, which may be the same or different, are a C₁₀-C₁₈ alkyl, C₁₀-C₁₈ alkenyl, C₁₀-C₁₈ alkanoyl or C₁₀-C₁₈ alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
8. The compound according to claim 1, wherein W is an oxygen atom and R¹, R², R³ and R⁴, which may be the same or different, are a C₁₂-C₁₆ alkyl, C₁₂-C₁₆ alkenyl, C₁₂-C₁₆ alkanoyl or C₁₂-C₁₆ alkenoyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
9. The compound according to claim 1, wherein W is an oxygen atom, R¹ and R³, which may be the same or different, are a C₁₂-C₁₆ alkanoyl or C₁₂-C₁₆ alkenoyl group, which may have a substituent selected from the Substituent group A, and R² and R⁴, which may be the same or different, are a C₁₂-C₁₆ alkyl or a C₁₂-C₁₆ alkenyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.

10. The compound according to claim 1, wherein W is an oxygen atom, R¹ and R³, which may be the same or different, are a decanoyl, dodecanoyl, tetradecanoyl, dodecenoyl, tetradecenoyl or octadecenoyl group, which may have a substituent selected from the Substituent group A, and R² and R⁴, which may be the same or different, are decyl, dodecyl, tetradecyl, dodecetyl, tetradecenyl or octadecenyl group, which may have a substituent selected from the Substituent group A, or a pharmacologically acceptable salt thereof.
11. The compound according to any one of claims 1 to 10, wherein the substituent selected from the Substituent group A is a fluorine atom, a hydroxyl group, a C₁-C₂₀ alkoxy group, a C₁₂-C₁₄ alkenyloxy group, a C₁₂-C₁₄ alkanoyloxy group or a C₁₂-C₁₄ alkenoyloxy group, or a pharmacologically acceptable salt thereof.
12. The compound according to any one of claims 1 to 10, wherein the substituent selected from the Substituent group A is a dodecyloxy group, a tetradecyloxy group, a dodecenyloxy group, a tetradecenyloxy group, a dodecanoyloxy group, a tetradecanoyloxy group, a dodecenoyloxy group, a tetradecenoyloxy group or an octadecenoyl group, or a pharmacologically acceptable salt thereof.
13. The compound according to any one of claims 1 to 12, wherein R⁵ is a halogen atom, a hydroxyl group or an unsubstituted C₁-C₆ alkoxy group, or a pharmacologically acceptable salt thereof.
14. The compound according to any one of claims 1 to 12, wherein R⁵ is a fluorine atom, a hydroxyl group or a methoxy group, or a pharmacologically acceptable salt thereof.

15. The compound according to any one of claims 1 to 14, wherein Q is an oxygen atom, or a pharmacologically acceptable salt thereof.
16. The compound according to any one of claims 1 to 14, wherein Q is a phosphonoethyl group, or a pharmacologically acceptable salt thereof.
17. The compound according to any one of claims 1 to 16, wherein position 1 of the right-side glucose or glucosamine takes the α configuration, or a pharmacologically acceptable salt thereof.
18. Phosphono 3-O-decyl-2-deoxy-6-O-{3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- α -D-glucopyranoside,
phosphono 3-O-decyl-2-deoxy-6-O-{3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenyl]-4-O-phosphono- β -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- α -D-glucopyranoside,
phosphono 3-O-decyl-2-deoxy-6-O-{3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- α -D-glucopyranoside,
phosphono 3-O-decyl-2-deoxy-6-O-{3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenyl]-4-O-phosphono- β -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- α -D-glucopyranoside,
2-(phosphonooxy)ethyl 3-O-decyl-2-deoxy-6-O-{3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- α -D-glucopyranoside,

2-(phosphonooxy)ethyl 3-O-decyl-2-deoxy-6-O- {3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2-(3-oxotetradecanoylamino)- α -D-glucopyranoside,

2-(phosphonooxy)ethyl 6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2,3-di-O-dodecyl- α -D-glucopyranoside,

phosphono 3-O-decyl-6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2-O-(3-oxotetradecanoyl)- α -D-glucopyranoside,

phosphono 3-O-decyl-6-O- {3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2-O-(3-oxotetradecanoyl)- α -D-glucopyranoside,

2-(phosphonooxy)ethyl 2,3-di-O-dodecyl-6-O- {6-O-methyl-3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenyl]-4-O-phosphono- β -D-glucopyranosyl}- α -D-glucopyranoside or

phosphono 6-O- {4-O-phosphono-3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenyl]- β -D-glucopyranosyl}-3-O-dodecyl-2-O-[(R)-3-hydroxytetradecyl]- α , β -D-glucopyranoside according to claim 1, or a pharmacologically acceptable salt thereof.

19. Phosphono 3-O-decyl-6-O- {3-O-[(R)-3-methoxydecyl]-6-O-methyl-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2-O-(3-oxotetradecanoyl)- α -D-glucopyranoside or

phosphono 3-O-decyl-6-O- {3-O-[(R)-3-methoxydecyl]-2-O-[(Z)-11-octadecenoyl]-4-O-phosphono- β -D-glucopyranosyl}-2-O-(3-oxotetradecanoyl)- α -D-glucopyranoside according to claim 1, or a pharmacologically acceptable salt thereof.

20. A medicament comprising the compound according to any one of claims 1 to 19 as an active ingredient.
21. An agent for prophylaxis or treatment of inflammation, comprising the compound according to any one of claims 1 to 19 as an active ingredient.
22. An agent for prophylaxis or treatment of an autoimmune disease, comprising the compound according to any one of claims 1 to 19 as an active ingredient.
23. An agent for prophylaxis or treatment of sepsis, comprising the compound according to any one of claims 1 to 19 as an active ingredient.
24. An immunosuppressive agent comprising the compound according to any one of claims 1 to 19 as an active ingredient.
25. A prognosis-improving agent after coronary artery bypass surgery, comprising the compound according to any one of claims 1 to 19 as an active ingredient.
26. Use of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof for producing a pharmaceutical composition.
27. A method for prophylaxis or treatment of inflammation, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.

28. A method for prophylaxis or treatment of an autoimmune disease, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.
29. A method for prophylaxis or treatment of sepsis, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.
30. A method for immunosuppression, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.
31. A method for improving prognosis after coronary artery bypass surgery, which comprises administering a pharmacologically effective dose of the compound according to any one of claims 1 to 19 or a pharmacologically acceptable salt thereof to a warm-blooded animal.